

GP/3721

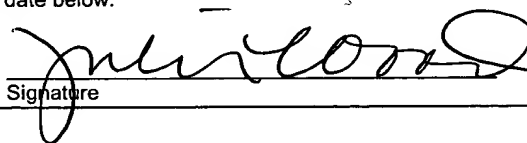
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
David A. Bryniarski

Serial No.: 09/510,857

Filed: February 23, 2000

For: Net-Reinforced Film Structure with
Modified Strand Profile

Group Art Unit: 3721

Examiner: Not Known

Atty. Docket No.: PCOS-00052
(47097-00052)

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R §§ 1.97(g),(h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

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The present Information Disclosure Statement contains references in the French language for which English translations are not readily available. The document numbers for the French language references are: EP 0 677 159 B1; EP 0 742 093 A1; FR 2.153.216; FR 2 703 704 B1; FR 2 718 509 B1; and FR 2 748 417 A1. Pursuant to 37 C.F.R. 1.98(a)(3), concise explanations of the relevance of these references follow:

EP 0 677 159 B1: This application is directed to a multilayer duct containing netting material and apparatus for producing the duct.

EP 0 742 093 A1:

Dialog abstract for EP 0 742 A1:

Title: Cooling device for continuous prodn. unit for synthetic tubular parts

Abstract: A cooling device, for a continuous prodn. unit for synthetic internal annular parts, made from at least one tubular blank (13) exiting from an extruder (10), forming at least two parallel mould chains (15a, 15b) each part of an endless chain and defining between them an impression (5) in the form of a tunnel, and an inner cylinder (22) gauging the inner face of the annular part (6). A nozzle (24) is situated at the end of the gauging cylinder (22) and is fed with compressed air which exits longitudinally as a thin annular blade of air (41) of low output but high speed driving the air contained in the annular part (6) and from the axial tube (25) extending into the part and so upstream. This forms the closed cooling current at least over the greater length of the tunnel form impression (5).

FR 2.153.216:

Dialog abstract for related German patent DE 2 164 845 A:

Abstract: In the manufacture of externally ribbed plastic tubes utilising the extruded product from an extrusion press as the starting workpiece and subjecting this to an operation designed to increase its internal diameter to permit a further operation in which the external ribs or rings are formed, an extrusion is produced and mechanically deformed in such a way that a tube blank is formed at the outlet of the extrusion press having a smaller external diameter than the final diameter so that the ribbed tube is brought to its final shape and dimensions during its finishing by means of an annular film of compressed air which simultaneously ensures the cooling of the ribbed tube.

FR 2 703 704 B1:

Dialog abstract for FR 2 703 704 A:

Abstract : A warning or barrier netting of synthetic material is made by longitudinally cutting a stocking structure (5) consisting of longitudinal strands (3), opt. associated with transverse strands (4), and has reinforcement element(s) (6) formed obliquely w.r.t. the longitudinal axis of the netting. The extrusion head to make the netting consists of a first cylindrical die (18) with movable mask (19,20,21) to produce the longitudinal and transverse strands, and a second die assembly (F) to extrude the reinforcement (6). This die

assembly (F) comprises a disc (22) rotating about the extruder axis and fitted in front of the annular extrusion channel (18) of the first assembly, and having an extrusion notch (22a) able to form a reinforcing ribbon (17). A separate material feed (27,28,29) ensures continuous flow at the notch.

USE - Used as warning netting laid horizontally over pipes or cables in trenches, or as warning barriers on work sites when placed vertically.

ADVANTAGE - The regularity of the oblique reinforcement increases effectiveness w.r.t. human lateral vision. The reinforcement is not easily torn.

FR 2 718 509 B1:

Dialog abstract for FR 2 718 509 A:

Abstract: In the fabrication process of a tube with twin walls, interior (7), exterior (9), they are continuously formed between the cooling nose and two tracks of dies of an extrusion machine carrying the impressions (18) for forming the rings and impressions (18a,18b,18c) in the formation of the sockets.

Each impression is connected to atmosphere or to a vacuum source, consistently in operation from the formation of the socket, where the internal wall (7) is submitted to a pressure (P_i) of a value greater than atmospheric, and it requires, during the sockets formation, to modify the value of the pressure (P_m) between the two wall (7,9) in

adjusting a value, close to that of the constant interior pressure (P_i), to a value near to the external pressure (P_e) present in the impression.

USE/ADVANTAGE - Process for the formation of twin walled sockets or connecting pieces with truncated sections. The process prevents the build up of pockets of air between the two walls of the fabricated item thus reducing the joining between the two walls and distortion of the ringed shape to the tube.

FR 2748417 A1:

Dialog abstract:

Abstract: An installation for making synthetic material tubular parts vacuum formed in a forming tunnel consisting of two endless chains of shells (5a) having forming impressions (6) has an internal vacuum feed circuit. The internal vacuum feed circuit for at least 1 of the shells (5a) of a pair (5a,5b) forming a length of the tubular part consists of at least 1 longitudinal groove (18), blind at at least 1 end (18a) and emerging parallel to the impression (6) and from the same face of the impression. The groove (18) connects with the feed windows (7) machined into the throats of the impression (6).


USE - Continuous vacuum moulding of tubular synthetic parts.

ADVANTAGE - Reduces flash on finished part and reduces losses in vacuum circuit.

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Assistant Commissioner is hereby authorized to deduct said fees from Jenkins & Gilchrist Deposit Account No. 10-0447/47097-00052.

Applicant respectfully requests that the listed documents be made of record in the present case.

Respectfully submitted,


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Date: June 22, 2000